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FILE 'HOME' ENTERED AT 17:13:00 ON 06 AUG 2001

=> file medline
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FILE 'MEDLINE' ENTERED AT 17:13:09 ON 06 AUG 2001

FILE LAST UPDATED: 30 JUL 2001 (20010730/UP). FILE COVERS 1958 TO DATE.

On April 22, 2001, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE now contains new records from the former NLM HEALTH STAR database. These records have an Entry Date and Update Date of 20010223.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2001 vocabulary. Enter HELP THESAURUS for details.

The OLDMEDLINE file segment now contains data from 1958 through 1965. Enter HELP CONTENT for details.

Left, right, and simultaneous left and right truncation are available in the Basic Index. See HELP SFIELDS for details.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

 \Rightarrow s (CD40 or CD154) (w) fusion

3269 CD40

277 CD154

86517 FUSION

6354 FUSIONS

89245 FUSION

(FUSION OR FUSIONS)

L13 (CD40 OR CD154) (W) FUSION

=> d l1 ibib abs

ANSWER 1 OF 3 MEDLINE

ACCESSION NUMBER: 2001209684 MEDLINE

DOCUMENT NUMBER: 21195371 PubMed ID: 11298824

TITLE: Rewiring of CD40 is necessary for delivery of rescue

signals to B cells in germinal centres and subsequent

entry

into the memory pool.

AUTHOR: Siepmann K; Skok J; van Essen D; Harnett M; Gray D

Department of Immunology, Imperial College School of CORPORATE SOURCE:

Medicine, Hammersmith Hospital, London, UK.

IMMUNOLOGY, (2001 Mar) 102 (3) 263-72. SOURCE:

Journal code: GH7; 0374672. ISSN: 0019-2805.

PUB. COUNTRY: England: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200105

ENTRY DATE: Entered STN: 20010517

> Last Updated on STN: 20010517 Entered Medline: 20010510

AB Memory B-cell development is impaired by in vivo blockade of the CD40-CD40

ligand (CD40L) interaction using human Fc immunoglobulin G1 (IgG1)-mouse

CD40 fusion protein (CD40-Ig); however, germinal centre (GC) formation is not. We show here that the block in B-cell

differentiation in these mice is at the stage of rescue from apoptosis and

exit from the GC. Thus, GC from CD40-Ig-treated mice contain a three- to fourfold higher level of apoptotic cells than found in control mice injected with human IgG1 alone. This increase in apoptosis is not caused by a blockade of the CD40L-mediated rescue signal but is the result of an intrinsic defect of GC B cells in CD40-Ig-treated mice to receive rescue signals via CD40. While anti-CD40 stimulation maintained the viability in culture of GC B cells from control mice, it did not rescue GC B cells

from

CD40-Ig-treated mice. This data is consistent with the notion that a 'rewiring' of the CD40 molecule is induced by CD40 ligation early in the response and is necessary to allow B-cell rescue from apoptosis when they subsequently enter the GC.

=> d l1 1- ibib abs

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L1ANSWER 1 OF 3 MEDLINE

ACCESSION NUMBER: 2001209684 MEDLINE

DOCUMENT NUMBER: 21195371 PubMed ID: 11298824

TITLE: Rewiring of CD40 is necessary for delivery of rescue

signals to B cells in germinal centres and subsequent

entry

into the memory pool.

AUTHOR: Siepmann K; Skok J; van Essen D; Harnett M; Gray D CORPORATE SOURCE:

Department of Immunology, Imperial College School of

Medicine, Hammersmith Hospital, London, UK.

IMMUNOLOGY, (2001 Mar) 102 (3) 263-72. SOURCE:

Journal code: GH7; 0374672. ISSN: 0019-2805.

PUB. COUNTRY: England: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200105

ENTRY DATE: Entered STN: 20010517

> Last Updated on STN: 20010517 Entered Medline: 20010510

Memory B-cell development is impaired by in vivo blockade of the CD40-CD40

ligand (CD40L) interaction using human Fc immunoglobulin G1 (IgG1)-mouse CD40 fusion protein (CD40-Ig); however, germinal centre

(GC) formation is not. We show here that the block in B-cell

differentiation in these mice is at the stage of rescue from apoptosis

exit from the GC. Thus, GC from CD40-Ig-treated mice contain a three- to fourfold higher level of apoptotic cells than found in control mice injected with human IgG1 alone. This increase in apoptosis is not caused by a blockade of the CD40L-mediated rescue signal but is the result of an intrinsic defect of GC B cells in CD40-Ig-treated mice to receive rescue signals via CD40. While anti-CD40 stimulation maintained the viability in culture of GC B cells from control mice, it did not rescue GC B cells

and

CD40-Ig-treated mice. This data is consistent with the notion that a 'rewiring' of the CD40 molecule is induced by CD40 ligation early in the response and is necessary to allow B-cell rescue from apoptosis when they subsequently enter the GC.

ANSWER 2 OF 3 MEDLINE

ACCESSION NUMBER: 94275366 MEDLINE

DOCUMENT NUMBER: 94275366 PubMed ID: 7516404

Memory B cell development but not germinal center TITLE:

formation

is impaired by in vivo blockade of CD40-CD40 ligand

AUTHOR:

Gray D; Dullforce P; Jainandunsing S

CORPORATE SOURCE:

Department of Immunology, Royal Postgraduate Medical

School, Hammersmith Hospital, London, UK.

SOURCE:

JOURNAL OF EXPERIMENTAL MEDICINE, (1994 Jul 1) 180 (1)

141-55.

Journal code: I2V; 2985109R. ISSN: 0022-1007.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199407

ENTRY DATE:

Entered STN: 19940729

Last Updated on STN: 19960129

Entered Medline: 19940721 AΒ

To study the role of the CD40-CD40 ligand interaction in the development of memory B cells and its level of action during primary antibody responses in vivo, mice were injected with a soluble CD40 fusion protein (sCD40-gamma 1), so as to block the interaction. The effects of the treatment on the primary antibody response were reminiscent of hyper-immunoglobulin M (IgM) syndrome (HIMG1): antigen-specific IgG responses were grossly inhibited whereas the IgM response was augmented severalfold. The latter observation suggests that there is a T-dependent, CD40 ligand-independent pathway of B cell activation that leads to IgM responses and that a significant component

οf

the IgM in HIMG1 patients is derived from T-dependent responses. The secondary response was not readily blocked by sCD40-gamma 1 treatment, indicating a relative independence of CD40 ligation of

antigen-experienced

B cells. The most striking finding from these studies is that the development of memory B cell populations (measured by adoptive transfer) is grossly impaired by administration of sCD40-gamma 1 during the early induction phase of the response. It is surprising that although the generation memory is diminished, there is no quantitative difference in the development of germinal centers. Whereas entry of B cells into the memory cell pathway is dependent on CD40 ligation, the clonal expansion

of

the potential memory precursors in germinal centers seems not to require CD40 signal.

ANSWER 3 OF 3 MEDLINE

ACCESSION NUMBER: 94267169 MEDLINE

DOCUMENT NUMBER: 94267169 PubMed ID: 7515910

TITLE:

Costimulation through CD28 enhances T cell-dependent B

cell

activation via CD40-CD40L interaction.

AUTHOR:

Klaus S J; Pinchuk L M; Ochs H D; Law C L; Fanslow W C;

Armitage R J; Clark E A

CORPORATE SOURCE:

Department of Microbiology, University of Washington,

Seattle 98195.

CONTRACT NUMBER:

DE 08229 (NIDCR) GM 38905 (NIGMS) RR 00166 (NCRR)

SOURCE:

JOURNAL OF IMMUNOLOGY, (1994 Jun 15) 152 (12) 5643-52.

Journal code: IFB; 2985117R. ISSN: 0022-1767.

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

PUB. COUNTRY:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 19940

ENTRY DATE:

Entered STN: 19940721

Last Updated on STN: 20000303 Entered Medline: 19940713

Changes in T cell helper function were analyzed when anti-CD3-activated T AΒ cells were costimulated with mAbs to the CD28 receptor (anti-CD28). T cell-dependent B cell growth and differentiation were consistently augmented if anti-CD3 stimulated-T cells were simultaneously activated with anti-CD28. Although anti-CD28 enhanced IL-2 and IL-4 production, it did not increase B cell responses solely by augmenting production of soluble lymphokines. Anti-CD28 costimulation induced increases on T cells of CD40 ligand (CD40L), known to promote B cell proliferation and Ig secretion. Because anti-CD28 promoted T cell helper functions and expression of CD40L, we examined the dependence for CD40L during T cell-dependent B cell responses. Although soluble CD40 fusion proteins only partially inhibited T cell-dependent B cell activation, we found a strict requirement for CD40L expression at initiating B cell responses. Both CD40L expression and T cell help were blocked by cyclosporin A after TCR cross-linking, and, unlike T cell proliferation, both remained cyclosporin A sensitive during CD28 costimulation. In addition, anti-CD28 could not compensate for the T cell helper deficiency of hyper IgM syndrome patients who lack functional CD40L. Thus, anti-CD28-induced T cell help is delivered via a CD40L-dependent process. The fact that cross-linking CD40 on B cells promotes expression of the B7/BB-1 ligand for CD28 suggest T and B interactions may have a reciprocal amplification mechanism.

=> log y COST IN U.S. DOLLARS

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Feb 06

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NEWS 4

Feb 16

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Apr 23

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Apr 23

PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7

May 07

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NEWS 8

Jun 20

Published patent applications (A1) are now in USPATFULL
NEWS 9

JUL 13

New SDI alert frequency now available in Derwent's
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NEWS EXPRESS July 11 CURRENT WINDOWS VERSION IS V6.0b,
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS) => s tumor necrosis factor superfamily or TNFSF 1.1 60 TUMOR NECROSIS FACTOR SUPERFAMILY OR TNFSF => s CD40L or CD154 2368 CD40L OR CD154 => s 11 and 12 L3 8 L1 AND L2 => duplicate remove ENTER L# LIST OR (END):13 DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS' KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n PROCESSING COMPLETED FOR L3 6 DUPLICATE REMOVE L3 (2 DUPLICATES REMOVED) => d 14 1- ibib, abs YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y ANSWER 1 OF 6 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 2001:435124 CAPLUS DOCUMENT NUMBER: 135:45182 TITLE: Multimeric forms of TNF superfamily ligands INVENTOR(S): Kornbluth, Richard S. PATENT ASSIGNEE(S): USA SOURCE: PCT Int. Appl., 73 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE WO 2001042298 A1 20010614 WO 2000-US7380 20000320 W: AU, CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE PRIORITY APPLN. INFO.: US 1999-454223 A 19991209 A method for constructing stable bioactive fusion proteins of the difficult to express tumor necrosis factor superfamily (TNFSF), and particularly members CD40L (CD154) and RANKL/TRANCE, with collectins, particularly pulmonary surfactant protein D (SPD) is described. Single trimers of these proteins lack the full stimulatory efficacy of the natural membrane forms of these proteins in many cases. The multimeric nature of these sol. fusion proteins enables them to engage multiple receptors on the responding cells, thereby, mimicking the effects of the membrane forms of these ligands. For CD40L-SPD, the resulting protein stimulates B cells, macrophages, and dendritic cells, indicating its potential usefulness as a vaccine adjuvant. The large size of these fusion proteins makes them less likely to diffuse into the circulation, thereby limiting their potential systemic toxicity. This property may be

esp. useful when these proteins are injected locally as a vaccine

adjuvant

or tumor immunotherapy agent to prevent them from diffusing away. In addn., these and other TNFSF-collecting fusion proteins present new possibilities for the expression of highly active, multimeric, sol. TNFSF members.

REFERENCE COUNT:

2

REFERENCE(S):

(1) Gires, O; EMBO J 1999, V16(20), P6131

(2) Pison, U; Eur J Clin Inv 1994, V24(9), P586

CAPLUS

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 2000:505293 CAPLUS

DOCUMENT NUMBER:

133:191263

TITLE:

Analysis of TNF-receptor and ligand superfamily

molecules in patients with lymphoproliferative

disease

of granular lymphocytes

AUTHOR(S):

Zambello, Renato; Trentin, Livio; Facco, Monica; Siviero, Marta; Galvan, Silvia; Piazza, Francesco; Perin, Alessandra; Agostini, Carlo; Semenzato,

Gianpietro

CORPORATE SOURCE:

Division of Hematology, Vicenza Hospital, Vicenza,

Italy

SOURCE:

Blood (2000), 96(2), 647-654 CODEN: BLOOAW; ISSN: 0006-4971 American Society of Hematology

PUBLISHER:
DOCUMENT TYPE:

Journal English

DOCUMENT TYPE: Jou. LANGUAGE: Eng.

In 21 patients with lymphoproliferative disease of granular lymphocytes (LDGL), the authors investigated the expression and the function of mols. belonging to TNF-receptor and TNF-ligand superfamilies (CD30/CD30L; CD40/ CD40L; CD27/CD70; Fas [CD95]/FasL [CD95L]). Fourteen patients were characterized by a proliferation of granular lymphocytes (GLs) expressing the CD3+CD16+ phenotype, whereas 7 cases showed the CD3-CD16+ CD56.+-. phenotype. The data show that both CD3+ and CD3-GLs are preferentially equipped with CD30, CD40, CD40L, CD70, and CD95 antigens; this pattern is usually assocd. with the lack of CD27 and CD30L antigens expression. CD95L was demonstrated in the cytoplasm in 14 of 21 cases by flow cytometry, but a definite signal was demonstrated in all cases studied using polymerase chain reaction anal. On functional grounds, a stimulatory activity on rIL-2 mediated redirected-cytotoxicity against Fc.gamma. + P815 targets was demonstrated with anti-CD30, CD40, CD40L, CD70, CD95, and CD95L mAbs, although resting cells were unable to exhibit significant redirected-cell lysis. The addn. of anti-CD30, CD30L, CD40, CD40L, CD95, and CD95L mAbs did not show any significant effect on cell proliferation at resting conditions or after rIL-2 stimulation, whereas anti-CD70 mAb mediated cell proliferation

in 6 of 10 cases tested. This figure was not related to an increase in apoptotic cells, as investigated by annexin-V expression. The data indicate that both CD3+ and CD3- GLs are equipped with different costimulatory antigens, supporting the concept that these cells are in vivo activated and suggesting that these mols. might play a role in the cytotoxic mechanisms of GLs.

REFERENCE COUNT:

42

REFERENCE(S):

- (1) Agrawal, B; J Immunol 1996, V157, P3229 CAPLUS
- (2) Alderson, M; J Exp Med 1993, V178, P2231 CAPLUS
- (3) Arase, H; J Exp Med 1995, V181, P1235 CAPLUS
- (4) Armant, M; Eur J Immunol 1996, V26, P1430 CAPLUS

(5) Armitage, R; Curr Opin Immunol 1994, V6, P407 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 1998367575 MEDLINE

DOCUMENT NUMBER: 98367575 PubMed ID: 9682002

TITLE: Glucocorticoids inhibit CD40 ligand expression of

peripheral CD4+ lymphocytes.

AUTHOR: Bischof F; Melms A

CORPORATE SOURCE: Department of Neurology, Eberhardt Karls University,

Tubingen, Germany.. Felix.Bischof@uni-tuebingen.de CELLULAR IMMUNOLOGY, (1998 Jul 10) 187 (1) 38-44.

Journal code: CQ9; 1246405. ISSN: 0008-8749.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199808

ENTRY DATE: Entered STN: 19980828

Last Updated on STN: 19980828 Entered Medline: 19980820

AB The ligand for CD40 (CD40L) is a type II transmembrane

glycoprotein that belongs to the tumor necrosis

factor superfamily. CD40L expression on

peripheral CD4+ cells is increased upon activation and delivers signals

to

SOURCE:

B lymphocytes which constitutively express CD40. We show that dexamethasone in vitro inhibits CD40L expression in a dose-dependent manner in concentrations ranging from 0.1 to 1 mg/mL. Semiquantitative analysis of CD40L mRNA by RT-PCR revealed that this effect was due to inhibition of CD40L transcription. The inhibitory effect of dexamethasone on CD40L expression was reversible and not due to affection of cell viability. Lymphocytes which have been exposed to dexamethasone in vitro retained the ability to express CD40L after incubation in medium alone for 48 h. Dexamethasone also inhibited PMA/ionomycin induced IL-2 and IFN-gamma production but not CD25 and CD69 expression. Glucocorticoids may exert their immunosuppressive effect in part by suppression of CD40L. Regulation of CD40L expression is steroid sensitive and may be similar or in part identical with IL-2 and IFN-gamma regulation.

L4 ANSWER 4 OF 6 MEDLINE

ACCESSION NUMBER: 97061417 MEDLINE

DOCUMENT NUMBER: 97061417 PubMed ID: 8905447

TITLE: Molecular, structural, and biological characteristics of

the tumor necrosis factor ligand superfamily.

AUTHOR: Gruss H J

CORPORATE SOURCE: Department of Internal Medicine III, University of Ulm

Medical Center, Germany.

SOURCE: INTERNATIONAL JOURNAL OF CLINICAL AND LABORATORY RESEARCH,

(1996) 26 (3) 143-59. Ref: 238

Journal code: A81; 9206491. ISSN: 0940-5437.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, ACADEMIC)

LANGUAGE: English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199703

ENTRY DATE:

Entered STN: 19970321

Last Updated on STN: 19980206 Entered Medline: 19970310

The tumor necrosis factor receptor superfamily at present consists of ten different transmembrane (type I) glycoproteins with characteristic

sequence homology for the cysteine-rich repeats in the extracellular domain. In parallel the tumor necrosis factor ligand super-family has

heen

recognized by discovery of ligands for all members of the receptor superfamily. These molecules are also transmembrane (type II) glycoproteins, with the exception of lymphotoxin-alpha which is the only entirely secreted protein of the tumor necrosis factor-like proteins. Several members of the ligand superfamily, including tumor necrosis

factor

and CD95L also exist in a biologically active soluble form. The tumor necrosis factor ligand superfamily contains at present ten different proteins. In addition, NGFR p75 binds to a second family of proteins (neurotrophins). These nerve growth factor-like dimeric soluble molecules are basic neurotrophic factors and the five members (NGF, BDNF, NT-3, NT-4, NT-5) are not related to the tumor necrosis factor superfamily ligands. The members of the tumor necrosis factor ligand superfamily (TNF, LT-alpha, LT-beta, CD27L, CD30L, CD40L, CD95L, 4-IBB, OX40L, TRAIL) share common biological activities, but some properties are shared by only some ligands, while others are unique. The diverse biological activities triggered through tumor necrosis factor receptors have been linked to the regulation of cellular activation, including immune responses and inflammatory reactions, but also with the pathology of a series of human diseases.

ANSWER 5 OF 6 MEDLINE DUPLICATE 2

ACCESSION NUMBER:

96062032 MEDLINE

DOCUMENT NUMBER:

PubMed ID: 7589079 96062032

TITLE:

Altered CD40 ligand induction in tolerant T lymphocytes.

AUTHOR:

Bowen F; Haluskey J; Quill H

CORPORATE SOURCE:

Department of Pathology and Laboratory Medicine,

University

of Pennsylvania School of Medicine, Philadelphia, USA.

CONTRACT NUMBER:

AI31569 (NIAID)

SOURCE:

EUROPEAN JOURNAL OF IMMUNOLOGY, (1995 Oct) 25 (10) 2830-4.

Journal code: EN5; 1273201. ISSN: 0014-2980.

PUB. COUNTRY:

GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

AΒ

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199512

ENTRY DATE:

Entered STN: 19960124

Last Updated on STN: 19960124

Entered Medline: 19951212

CD40 ligand (CD40L) is a member of the tumor necrosis factor superfamily and is expressed

on the surface of activated T lymphocytes. The interaction of CD40L with CD40 on B cells results in B cell activation,

immunoglobulin (Ig) secretion and Ig class switching. To study anergy as a

mechanism of murine CD4 T cell tolerance, we determined both in vivo and

in vitro that CD3-activated anergic cells are deficient in the ability to stimulate B cell proliferation, and that anergic cells are defective for the T cell receptor/CD3-mediated induction of CD40L expression. These results have implications for the recruitment of B cell responses

anergic T cells in vivo.

ANSWER 6 OF 6 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1993:623852 CAPLUS

DOCUMENT NUMBER:

119:223852

TITLE:

by

CD30 antigen, a marker for Hodgkin's lymphoma, is a receptor whose ligand defines an emerging family of

cytokines with homology to TNF

AUTHOR(S):

Smith, Craig A.; Gruss, Hans Juergen; Davis, Terri; Anderson, Dirk; Farrah, Terry; Baker, Elizabeth;

Sutherland, Grant R.; Brannan, Camilynn I.; Copeland,

Neal G.; et al.

CORPORATE SOURCE:

Immunex Res. and Dev. Corp., Seattle, WA, 98101, USA

SOURCE:

Cell (Cambridge, Mass.) (1993), 73(7), 1349-60

CODEN: CELLB5; ISSN: 0092-8674

DOCUMENT TYPE:

Journal English

LANGUAGE:

CD30 is a surface marker for neoplastic cells of Hodgkin's lymphoma and shows sequence homol. to members of the tumor necrosis factor (TNF)

receptor superfamily. Using a chimeric probe consisting of the extracellular domain of CD30 fused to truncated Ig heavy chains, the cDNA cognate from the murine T cell clone 7B9 was expression cloned. The encoded protein is a 239 amino acid type II membrane protein whose C-terminal domain shows significant homol. to TNF.alpha., TNF.beta., and CD40L. Cross-hybridization to an induced peripheral blood T cell cDNA library yielded the human homolog, which is 72% identical at the amino acid level. The recombinant human ligand enhances the

-> 100 0

of CD3-activated T cells yet induces differential responses, including cell death, in several CD30+ lymphoma-derived clones. The human and murine genes map to 9q33 and the proximal region of chromosome 4, resp.

COST	IN U.S. DOLLARS
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